

Release A CDR RID Report

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Document Planning Workbench DDDR

RID ID CDR 101

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Priority 2

Section

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Figure Table

Category Name Planning (PLS) Design

Actionee ECS

Sub Category

Subject Production Request/Planning Should Support Specification of a Product Completion Time

Description of Problem or Suggestion:

The Science Computing Facility, when submitting a Production Request to the ECS Planning subsystem, needs to be able to specify a "must have by", or product completion, time. This capability, which would also support definition of a critical path in the processing timeline, is needed to allow the SCFs to specify and monitor data production in relation to their defined work plan.

Specification of a priority (currently supported) is not sufficient. Among other reasons, priority alone would not cause a system alert to be issued when a job on the critical processing path does not complete within the overall Production Request constraints (not just the processing window for the individual DPR).

Aging, or raising the priority of a job according to its time in the queue, would also not be sufficient.

Originator's Recommendation

The Planning subsystem should support definition of a processing time window at the Production Request level. The system should issue an alert if the specified/expected completion time cannot be met.

GSFC Response by:

GSFC Response Date

HAIS Response by: Jacob Eisenstein

HAIS Schedule 10/25/95

HAIS R. E. Jolyon Martin

HAIS Response Date 12/8/95

The specification of Product Completion Times is a good suggestion and is already being investigated within the Release B design effort. The Release B design team are evaluating the concept of "Production Goals" against which reporting could be defined at the Production Request Level. The Release B design team are also evaluating the concept of "Latest Needed Time" for data products, so that alerts may be issued when completion times are not met, this is especially valuable for the cross DAAC data dependencies.

It is proposed that this facility may not be strongly required at Release A, and it is in line with the philosophy of providing more advanced capabilities at later releases to leave this within the remit of Release B development. Further, at Release A, there are mechanisms which support the monitoring of data production in terms of defined work plan (display of residual planned DPRs from the active schedule, generation of planned vs. actuals reports), and some which support corrective actions (capabilities available through the AutoSys to the production monitoring staff, for example, or re-prioritization of Production Requests through the Production Request Editor and a re-planning cycle).

In detail, at Release A, a "must have by" time could be specified by the SCF within the comments field for the Production Request. After generating a candidate plan the Production Planner can visually determine the planned time of the last of the DPRs fulfilling the request. If it was found that the "must have by" is not met then the Production Planner may be able to adjust the priority of the PR to meet the goal.

Status Closed

Date Closed 1/25/96

Sponsor Kempler

Attachment if any
